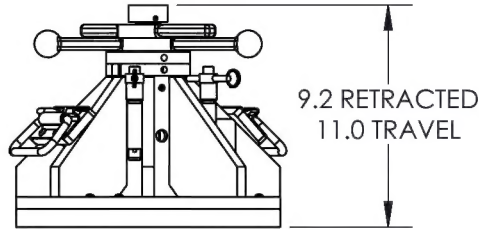
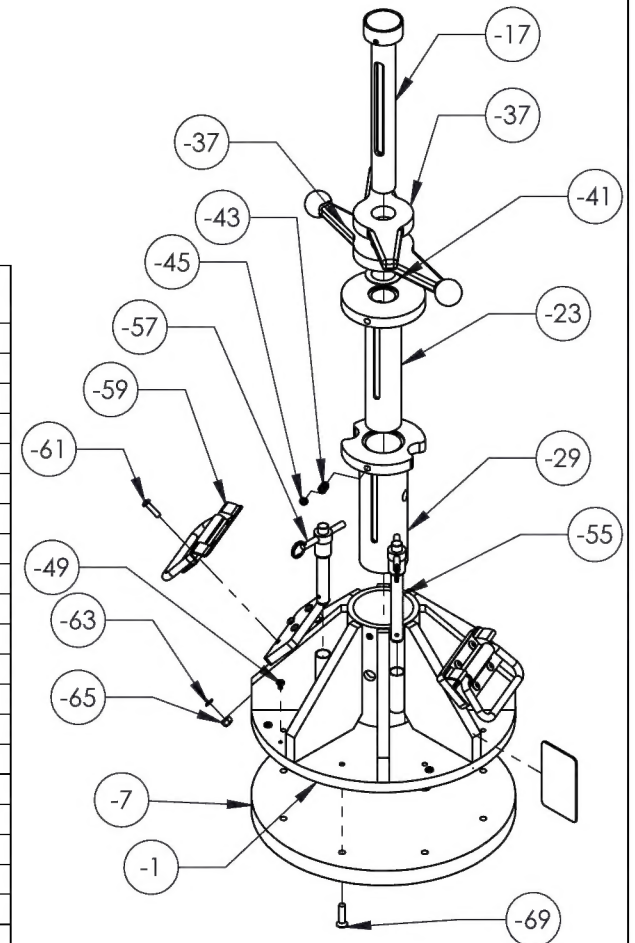


This drawing, specifications, and concepts contained here in are the sole property of Red Barn Machine, and may not be reproduced or used in any fashion without the prior written permission of Red Barn Machine.

| REVISIONS | | | |
|-----------|---|-----------|---------|
| REV | DESCRIPTION | DATE | INITIAL |
| A | ADDED SHT 23, 1st ARTICLE SHEET. SHT 22, CHANGED WEIGHT FROM 3500 TO 1800 | 2/24/2011 | JAG |



| ASSY QTY | ASSY QTY | ASSY QTY | ASSY QTY | B/O | Part # | UNIT QTY | Description | Material | B/O INFORMATION OR SPECIFICATIONS | PG. |
|----------|----------|----------|----------|-----|--------|----------|----------------------|-----------------------|---|-----|
| | | | X | | -1 | 1 | JACK ASSY | | | 2 |
| | | | 1 | | -3 | | SLEEVE | CARBON STEEL DOM TUBE | 2-1/2 OD X 2.0 ID X 5-7/8 | 3 |
| | | X | 1 | | -5 | | JACK WELDMENT | | | 4 |
| | | 1 | | | -7 | | BASE | 6061 | Ø11-1/8 X 1/2 | 5 |
| | | 8 | | | -9 | | GUSSET | 6061 | 1/2 X 5-1/8 X 4-1/8 | 6 |
| | | 1 | | | -11 | | SHANK | 6061 | Ø3.0 X 2-1/2 X 5-5/8 | 7 |
| | | 2 | | | -13 | | HANDLE PLATE | 6061 | 3/8 X 4.0 X 2.0 | 8 |
| | | 2 | | | -15 | | BALL LOCK RECIEVER | 6061 | Ø5/8 X .035 WALL X 2.0 | 9 |
| | X | | | | -17 | 1 | POST ASSY | | | 10 |
| | 1 | | | | -19 | | POST MOD | S.S. | ACME 1-6 MCMaster-CARR #95061A844(NEEDS MODIFIED) | 11 |
| | 1 | | | | -21 | | ADAPTER CUP | S.S. 303 | Ø1-3/4 x 7/8 | 12 |
| X | | | | | -23 | 1 | INSERT 1 WELDMENT | | | 13 |
| | 1 | | | | -25 | | INSERT 1 | CARBON STEEL DOM TUBE | 2.0 OD X 1.5 ID X 6-5/8 | 14 |
| | 1 | | | | -27 | | FLANGE 1 | 1018 | .50 X Ø3-5/8 | 15 |
| X | | | | | -29 | 1 | INSERT2 WELDMENT | | | 16 |
| 1 | | | | | -31 | | INSERT2 | CARBON STEEL DOM TUBE | Ø2.0 OD X 1-1/2 ID X 6-1/8 | 17 |
| 1 | | | | | -33 | | FLANGE2 | 1018 | .50 X Ø3-5/8 | 18 |
| | | | | | -35 | 1 | PLYWOOD BASE | MARINE PLYWOOD | 3/4 X Ø11.0 SK393M44123-7 (NEEDS MODIFIED) | 19 |
| | | | | | -37 | 1 | JACK HANDLE MOD | CAST IRON | MCMaster-CARR #92428A140 (NEEDS MODIFIED) | 20 |
| | | | | | -39 | 1 | LOCKING HANDLE MOD | CAST IRON | MCMaster-CARR #92428A140 (NEEDS MODIFIED) | 21 |
| | | | | B/O | -41 | 1 | THRUST WASHER | S.S. | Ø1-1/2 X Ø1.0 X .03 MCMaster-CARR #97022A505 | 1 |
| | | | | B/O | -43 | 3 | SET SCREW | S.S. | 5/16-18 MCMaster-CARR #92845A615 | 1 |
| | | | | B/O | -45 | 3 | LOCK SCREW | S.S. | 5/16-18 MCMaster-CARR #91318A510 | 1 |
| | | | | B/O | -47 | 3 | LANYARD | S.S. | 12" W TAB MCMaster-CARR #30345T24 | NS |
| | | | | B/O | -49 | 3 | MACHINE SCREW | S.S. | 8-32 x 1/4 MCMaster-CARR #91735A190 | 1 |
| | | | | B/O | -51 | 1 | REMOVE BEFORE FLIGHT | NYLON | NAS 1756-12 | NS |
| | | | | | -53 | 1 | PLACARD | ALUMINUM | USE RB41009 WITH T/N, S/N, AND LOAD SPEC. | 1 |
| | | | | B/O | -55 | 1 | BALL LOCK PIN | S.S. | 3in MCMaster-CARR #90980A550 | 1 |
| | | | | B/O | -57 | 1 | BALL LOCK PIN | S.S. | 2in MCMaster-CARR #90980A540 | 1 |
| | | | | B/O | -59 | 2 | HANDLE | STEEL | REID #NSH-50 | 1 |
| | | | | B/O | -61 | 8 | SOCKET CAP SCREW | S.S. | 10-32 X 3/4 MCMaster-CARR #98164A182 | 1 |
| | | | | B/O | -63 | 8 | WASHER | S.S. | #10 MCMaster-CARR #90945A740 | 1 |
| | | | | B/O | -65 | 8 | LOCK NUT | S.S. | 10-32 MCMaster-CARR #90715A115 | 1 |
| | | | | B/O | -67 | 1 | SPRING PIN | S.S. | 3/16 X 1-1/2 MCMaster-CARR #92383A734 | 1 |
| | | | | B/O | -69 | 8 | MACHINE SCREW | S.S. | 1/4-20 X 1 MCMaster-CARR #91771A543 | 1 |

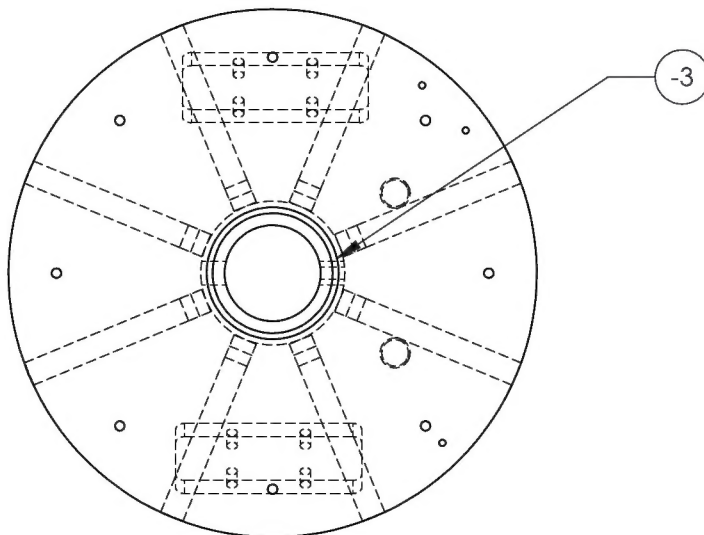
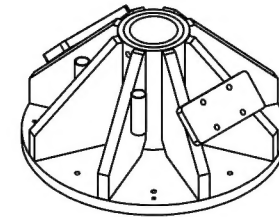
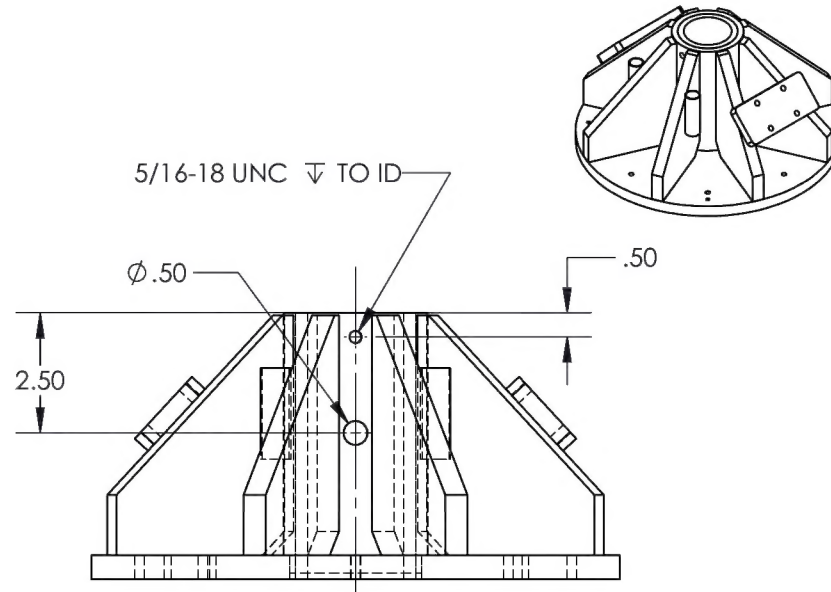
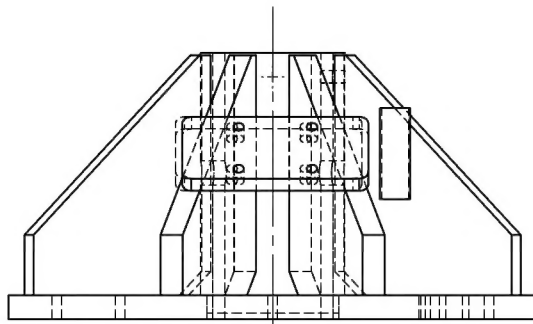


RED BARN MACHINE

| | | |
|---|--------------------------|--|
| TITLE AFT AIR TRANSPORT SHORING JACK | | REV A |
| DWG NO. RBT18403 | | |
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES | | DRAWN BY: GILBERT |
| TOLERANCES ON: DECIMALS .XXX ± .005 .XX ± .01 .X ± .1 | | APPROVED <i>D Weil</i> |
| FRACTIONS ± 1/32 ANGLES ± 5° | | HEAT TREAT FINISH SPEC |
| UNLESS OTHERWISE SPECIFIED 1. BREAK ALL SHARP EDGES .015 x 45° PR .015 R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING | | USED ON MODEL FIRE SCOUT MQ-8B |
| SCALE 1:8 | DATE 1/17/2011 | SHEET 1 OF 23 |

This drawing, specifications, and concepts contained here in are the sole property of Red Barn Machine, and may not be reproduced or used in any fashion without the prior written permission of Red Barn Machine.

| REVISIONS | | | |
|-----------|-------------|------|---------|
| REV | DESCRIPTION | DATE | INITIAL |
| | | | |



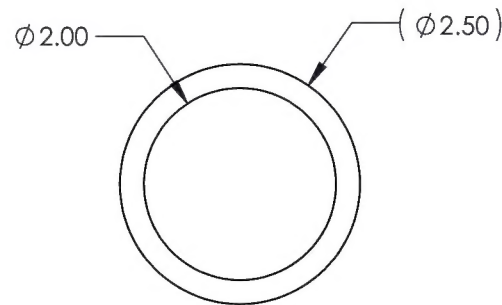
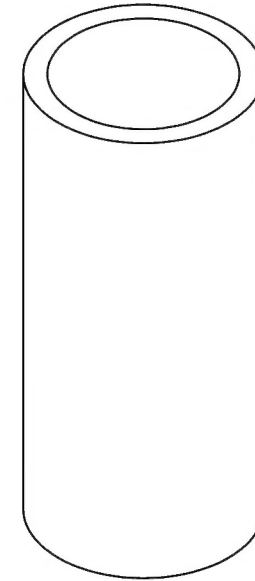
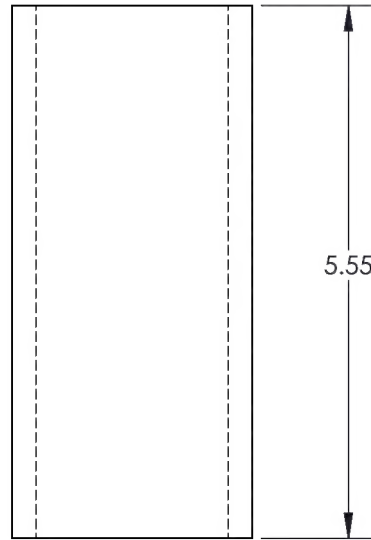
-1
JACK ASSY

NOTE:
INSERT SLEEVE (-3) BEFORE DRILLING 2 HOLES.

| | |
|--|--------------------------|
| RED BARN MACHINE | |
| TITLE AFT AIR TRANSPORT SHORING JACK | |
| DWG NO. RBT18403-1 | REV A |
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON: DECIMALS .XXX ± .005 .XX ± .01 .X ± .1 FRACTIONS ± 1/32 ANGLES ± 5° | |
| UNLESS OTHERWISE SPECIFIED 1. BREAK ALL SHARP EDGES .015 x 45° PR .015 R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING | |
| DRAWN BY: GILBERT APPROVED: <i>D Weil</i> HEAT TREAT FINISH SPEC USED ON MODEL FIRE SCOUT MQ-8B | |
| SCALE 1:4 | DATE 1/17/2011 |
| SHEET 2 OF 23 | |


This drawing, specifications, and concepts contained here in are the sole property of Red Barn Machine, and may not be reproduced or used in any fashion without the prior written permission of Red Barn Machine.

| REVISIONS | | | |
|-----------|-------------|------|----------|
| REV | DESCRIPTION | DATE | INITIAL |
| | | | APPROVED |



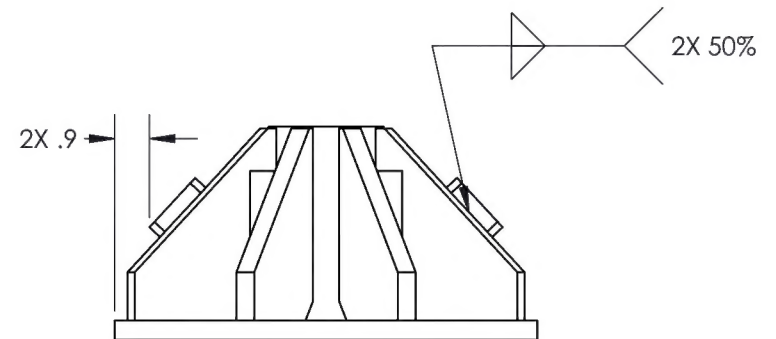
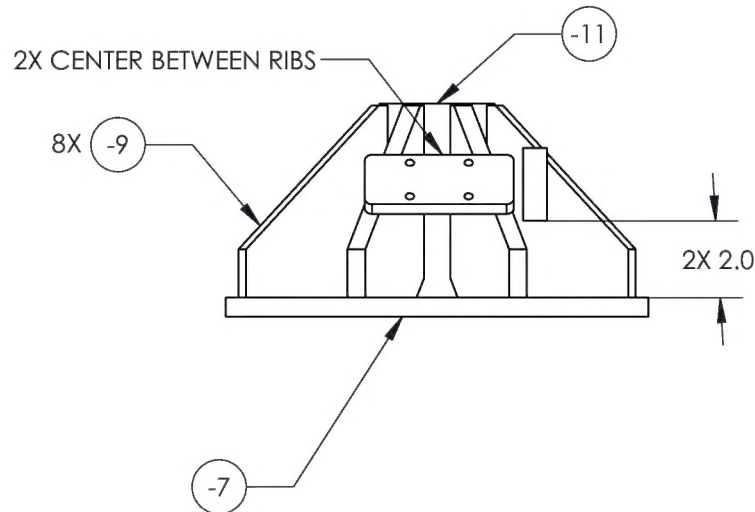
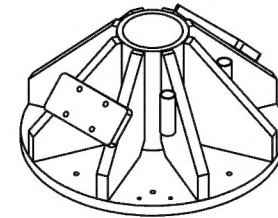
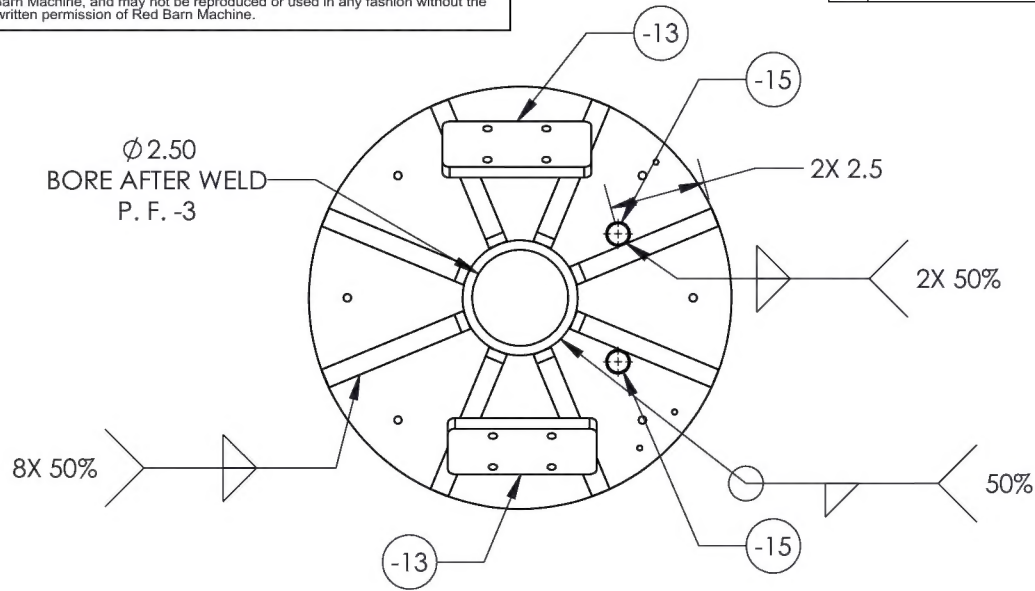
③

SLEEVE

| | |
|--|--|
|  RED BARN MACHINE | |
| TITLE AFT AIR TRANSPORT SHORING JACK | |
| DWG NO. RBT18403-3 | REV A |
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON: DECIMALS .XXX ± .005 .XX ± .01 .X ± .1 FRACTIONS ± 1/32 ANGLES ± 5° | DRAWN BY: GILBERT APPROVED <i>D Weil</i> HEAT TREAT FINISH SPEC |
| UNLESS OTHERWISE SPECIFIED 1. BREAK ALL SHARP EDGES .015 x 45° PR .015 R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING | USED ON MODEL FIRE SCOUT MQ-8B |
| SCALE 1:2 | DATE 1/17/2011 |
| SHEET 3 OF 23 | |

This drawing, specifications, and concepts contained here in are the sole property of Red Barn Machine, and may not be reproduced or used in any fashion without the prior written permission of Red Barn Machine.

| REVISIONS | | | |
|-----------|-------------|------|----------|
| REV | DESCRIPTION | DATE | INITIAL |
| | | | APPROVED |

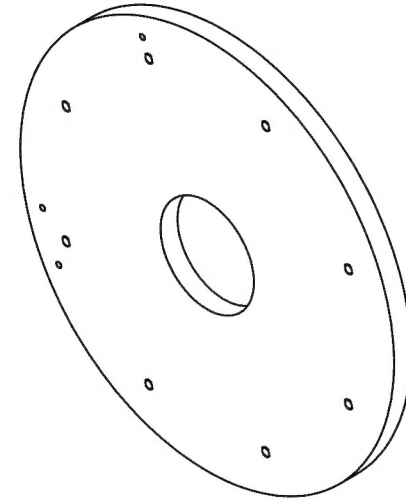
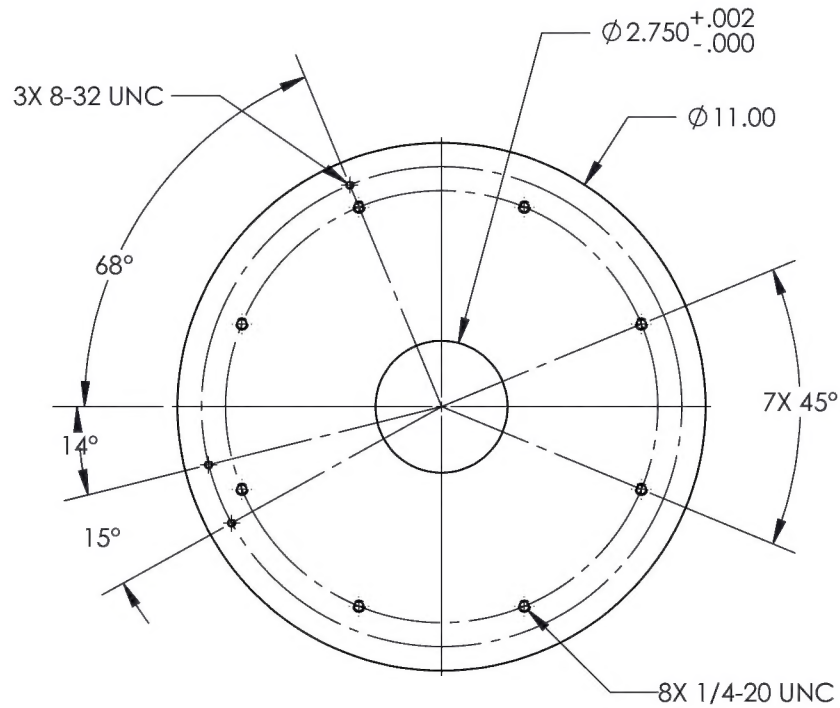


(5)
JACK WELDMENT

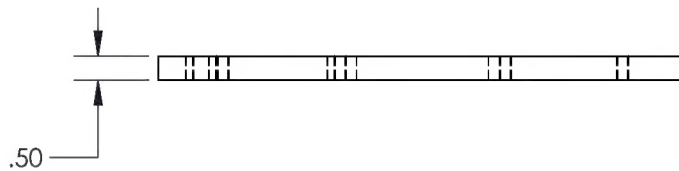
| | |
|---|--------------------------|
| RED BARN MACHINE | |
| TITLE AFT AIR TRANSPORT SHORING JACK | |
| DWG NO. RBT18403-5 | REV A |
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES | |
| TOLERANCES ON: DECIMALS .XXX ± .005 .XX ± .01 .X ± .1 | |
| FRACTIONS ± 1/32 ANGLES ± 5° | |
| UNLESS OTHERWISE SPECIFIED 1. BREAK ALL SHARP EDGES .015 x 45° PR .015 R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING | |
| SCALE 1:5 | DATE 1/17/2011 |
| SHEET 4 OF 23 | |
| DRAWN BY: GILBERT | |
| APPROVED <i>D Weil</i> | |
| HEAT TREAT FINISH POWDER COAT RED | |
| SPEC RAL 3020 | |
| USED ON MODEL FIRE SCOUT MQ-8B | |


This drawing, specifications, and concepts contained here in are the sole property of Red Barn Machine, and may not be reproduced or used in any fashion without the prior written permission of Red Barn Machine.

| REVISIONS | | | | |
|-----------|-------------|------|---------|----------|
| REV | DESCRIPTION | DATE | INITIAL | APPROVED |



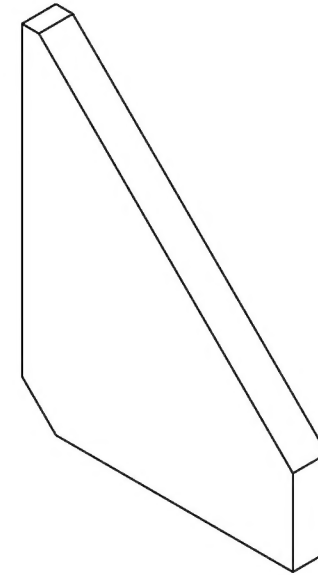
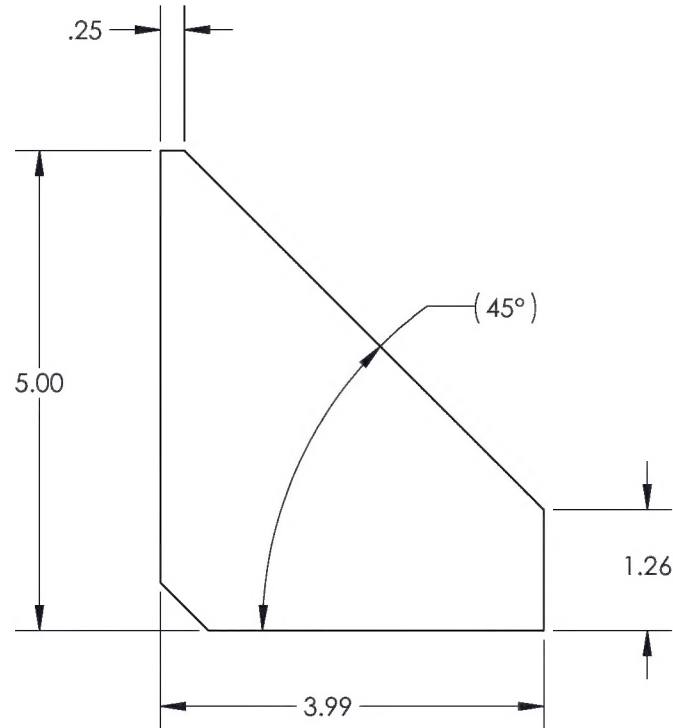
(-7)
BASE



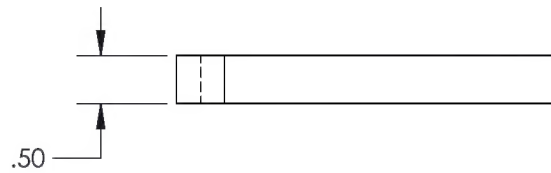
| | |
|--|---|
|  RED BARN MACHINE | |
| TITLE AFT AIR TRANSPORT SHORING JACK | |
| DWG NO. RBT18403-7 | REV A |
| UNLESS OTHERWISE SPECIFIED TOLERANCES ON: DECIMALS .XXX ± .005 .XX ± .01 .X ± .1 FRACTIONS ± 1/32 ANGLES ± 5° | DRAWN BY: GILBERT APPROVED: <i>D Weil</i> HEAT TREAT FINISH SPEC |
| UNLESS OTHERWISE SPECIFIED 1. BREAK ALL SHARP EDGES .015 x 45° PR .015 R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING | USED ON MODEL FIRESOUT MQ-8B |
| SCALE 1:4 | DATE 1/17/2011 |
| SHEET 5 OF 23 | |


This drawing, specifications, and concepts contained here in are the sole property of Red Barn Machine, and may not be reproduced or used in any fashion without the prior written permission of Red Barn Machine.

| REVISIONS | | | | |
|-----------|-------------|------|---------|----------|
| REV | DESCRIPTION | DATE | INITIAL | APPROVED |



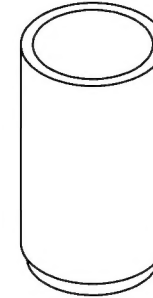
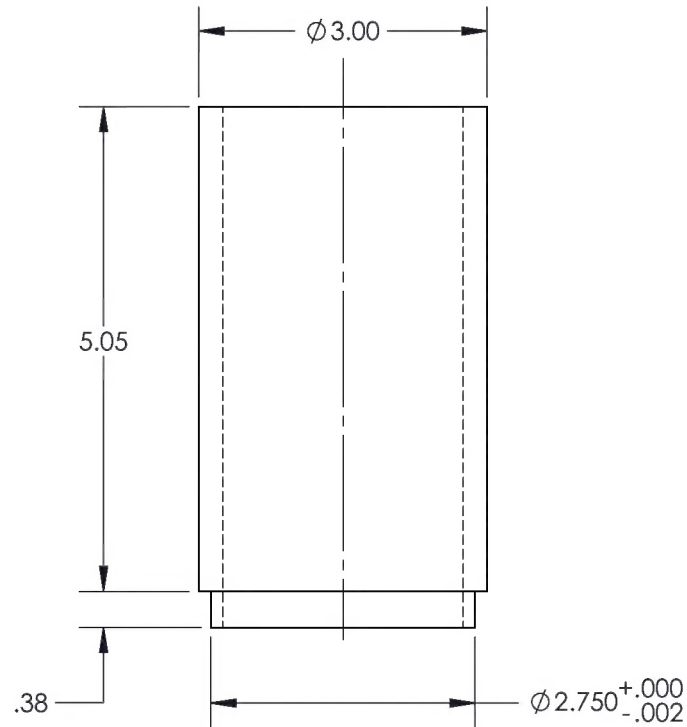
(-9)
GUSSET



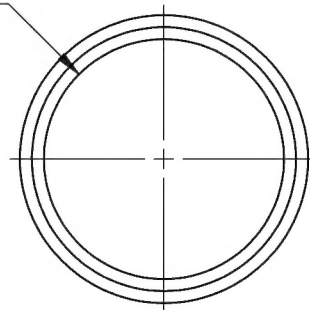
| | |
|---|--|
|  RED BARN MACHINE | |
| TITLE AFT AIR TRANSPORT SHORING JACK | |
| DWG NO. RBT18403-9 | REV A |
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON: DECIMALS .XXX ± .005 .XX ± .01 .X ± .1 FRACTIONS ± 1/32 ANGLES ± 5° | DRAWN BY: GILBERT APPROVED <i>D Weil</i> HEAT TREAT FINISH SPEC |
| UNLESS OTHERWISE SPECIFIED 1. BREAK ALL SHARP EDGES .015 x 45° PR .015 R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING | USED ON MODEL FIRE SCOUT MQ-8B |
| SCALE 1:4 | DATE 1/17/2011 |
| SHEET 6 OF 23 | |

This drawing, specifications, and concepts contained here in are the sole property of Red Barn Machine, and may not be reproduced or used in any fashion without the prior written permission of Red Barn Machine.

| REVISIONS | | | |
|-----------|-------------|------|----------|
| REV | DESCRIPTION | DATE | INITIAL |
| | | | APPROVED |




($\varnothing 2.50$)
FINISH
BORE AT
ASSY



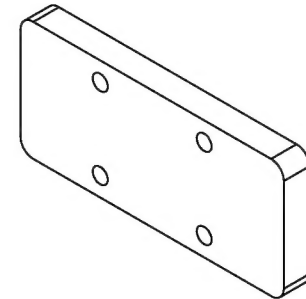
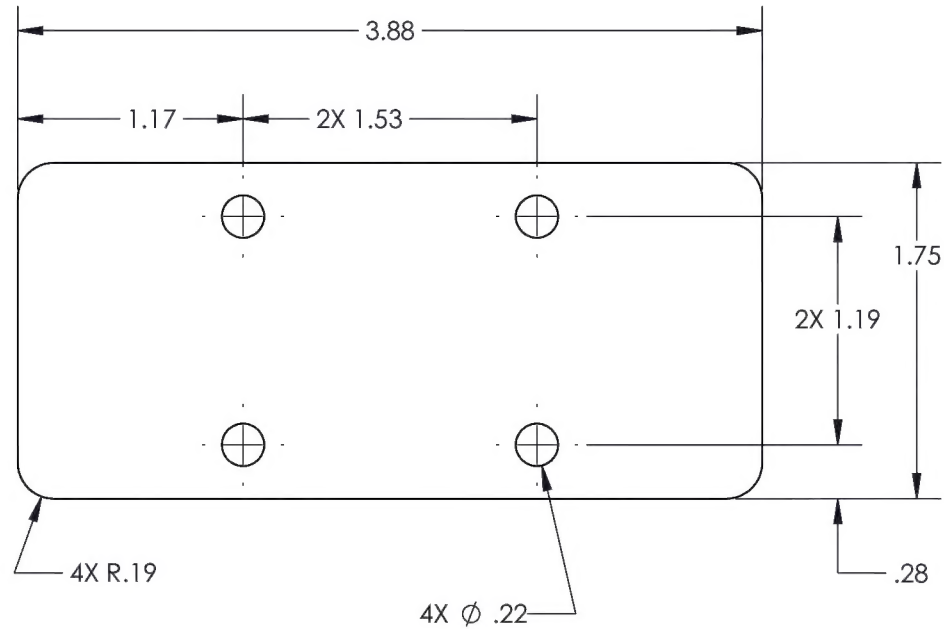
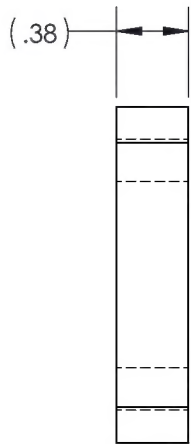
(-11)

BASE

| | |
|---|--|
|  RED BARN MACHINE | |
| TITLE AFT AIR TRANSPORT SHORING JACK | |
| DWG NO. RBT18403-11 | REV A |
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON: DECIMALS .XXX $\pm .005$.XX $\pm .01$.X $\pm .1$ FRACTIONS $\pm 1/32$ ANGLES $\pm 5^\circ$ | DRAWN BY: GILBERT APPROVED: <i>D Weil</i> HEAT TREAT: FINISH: SPEC: |
| UNLESS OTHERWISE SPECIFIED 1. BREAK ALL SHARP EDGES .015 x 45° PR .015 R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING | USED ON MODEL FIRE SCOUT MQ-8B |
| SCALE 1:4 | DATE 1/17/2011 |
| SHEET 7 OF 23 | |


This drawing, specifications, and concepts contained here in are the sole property of Red Barn Machine, and may not be reproduced or used in any fashion without the prior written permission of Red Barn Machine.

| REVISIONS | | | | |
|-----------|-------------|------|---------|----------|
| REV | DESCRIPTION | DATE | INITIAL | APPROVED |



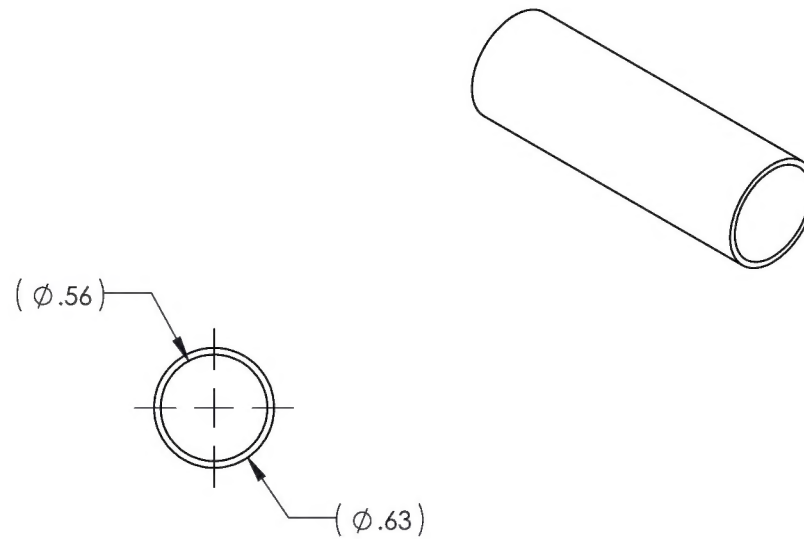
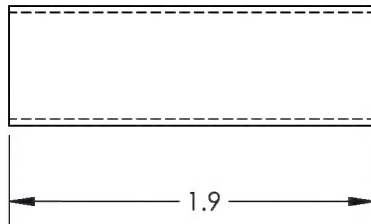
(-13)

HANDLE PLATE

| | |
|--|---|
|  RED BARN MACHINE | |
| TITLE AFT AIR TRANSPORT SHORING JACK | |
| DWG NO. RBT18403-13 | REV A |
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON: DECIMALS .XXX ± .005 .XX ± .01 .X ± .1 FRACTIONS ± 1/32 ANGLES ± 5° | DRAWN BY: GILBERT APPROVED: <i>D Weil</i> HEAT TREAT FINISH SPEC |
| UNLESS OTHERWISE SPECIFIED 1. BREAK ALL SHARP EDGES .015 x 45° PR .015 R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING | USED ON MODEL FIRE SCOUT MQ-8B |
| SCALE 1:1 | DATE 1/17/2011 |
| SHEET 8 OF 23 | |


This drawing, specifications, and concepts contained here in are the sole property of Red Barn Machine, and may not be reproduced or used in any fashion without the prior written permission of Red Barn Machine.

| REVISIONS | | | | |
|-----------|-------------|------|---------|----------|
| REV | DESCRIPTION | DATE | INITIAL | APPROVED |



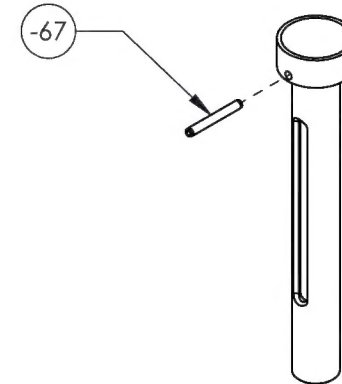
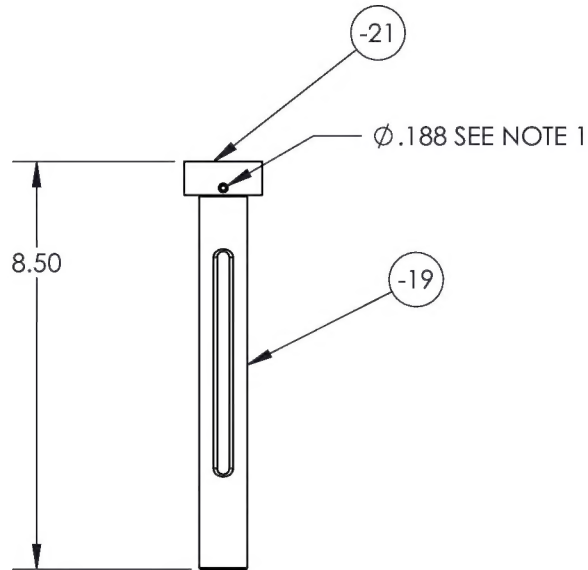
(-15)

BALL LOCK RECIEVER

| | |
|---|--|
|  RED BARN MACHINE | |
| TITLE AFT AIR TRANSPORT SHORING JACK | |
| DWG NO. RBT18403-15 | REV A |
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON: DECIMALS .XXX ± .005 .XX ± .01 .X ± .1 FRACTIONS ± 1/32 ANGLES ± 5° | DRAWN BY: GILBERT APPROVED <i>D Weil</i> HEAT TREAT FINISH SPEC |
| UNLESS OTHERWISE SPECIFIED 1. BREAK ALL SHARP EDGES .015 x 45° PR .015 R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING | USED ON MODEL FIRE SCOUJT MQ-8B |
| SCALE 1:4 | DATE 1/17/2011 |
| SHEET 9 OF 23 | |


This drawing, specifications, and concepts contained here in are the sole property of Red Barn Machine, and may not be reproduced or used in any fashion without the prior written permission of Red Barn Machine.

| REVISIONS | | | |
|-----------|-------------|------|----------|
| REV | DESCRIPTION | DATE | INITIAL |
| | | | APPROVED |



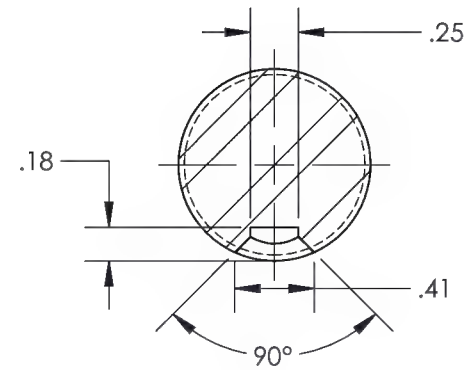
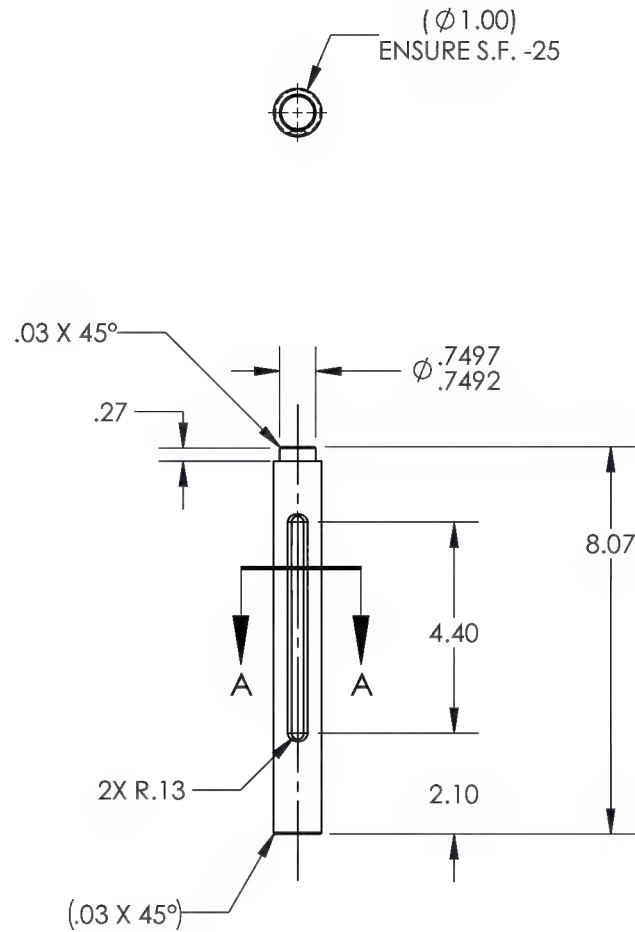
-17
POST ASSY

- NOTES:
1. PRESS FIT -21 ONTO -19, THEN DRILL HOLE. ORIENTATION NOT CRITICAL
 2. INSTALL SPRING PIN BELOW SURFACE.

| | |
|--|--|
|  RED BARN MACHINE | |
| TITLE AFT AIR TRANSPORT SHORING JACK | |
| DWG NO. RBT18403-17 | REV A |
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON: DECIMALS .XXX ± .005 .XX ± .01 .X ± .1 FRACTIONS ± 1/32 ANGLES ± 5° | DRAWN BY: GILBERT APPROVED <i>D Weil</i> HEAT TREAT FINISH SPEC |
| UNLESS OTHERWISE SPECIFIED 1. BREAK ALL SHARP EDGES .015 x 45° PR .015 R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING | USED ON MODEL FIRE SCOUT MQ-8B |
| SCALE 1:4 | DATE 1/17/2011 |
| SHEET 10 OF 23 | |

This drawing, specifications, and concepts contained here in are the sole property of Red Barn Machine, and may not be reproduced or used in any fashion without the prior written permission of Red Barn Machine

| REVISIONS | | | |
|-----------|-------------|------|----------|
| REV | DESCRIPTION | DATE | INITIAL |
| | | | APPROVED |



SECTION A-A
SCALE 1 : 1

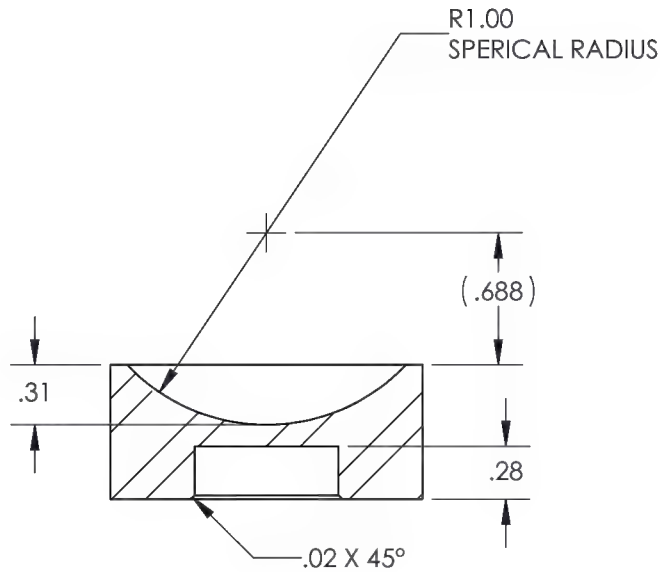
(-19)

POST MOD

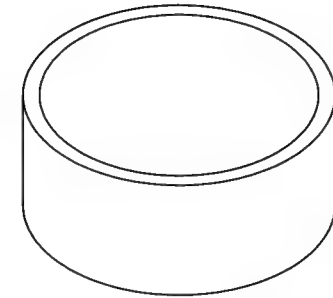
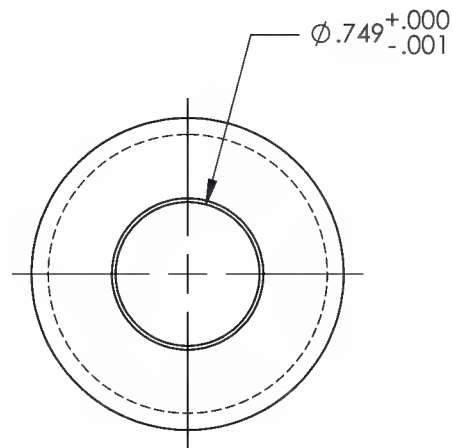
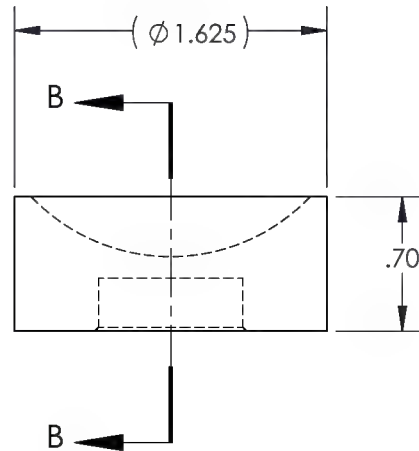
| | |
|--|--|
|  RED BARN MACHINE | |
| TITLE AFT AIR TRANSPORT SHORING JACK | |
| DWG NO. RBT18403-19 | REV A |
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON: DECIMALS .XXX ± .005 .XX ± .01 .X ± .1 FRACTIONS ± 1/32 ANGLES ± 5° | DRAWN BY: GILBERT APPROVED <i>D Weil</i> HEAT TREAT FINISH SPEC |
| UNLESS OTHERWISE SPECIFIED 1. BREAK ALL SHARP EDGES .015 x 45° PR .015 R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING | USED ON MODEL FIRE SCOUT MQ-8B |
| SCALE 1:4 | DATE 1/17/2011 |
| SHEET 11 OF 23 | |

This drawing, specifications, and concepts contained here in are the sole property of Red Barn Machine, and may not be reproduced or used in any fashion without the prior written permission of Red Barn Machine

| REVISIONS | | | |
|-----------|-------------|------|----------|
| REV | DESCRIPTION | DATE | INITIAL |
| | | | APPROVED |



SECTION B-B
SCALE 1 : 1



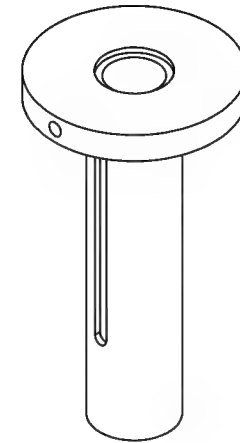
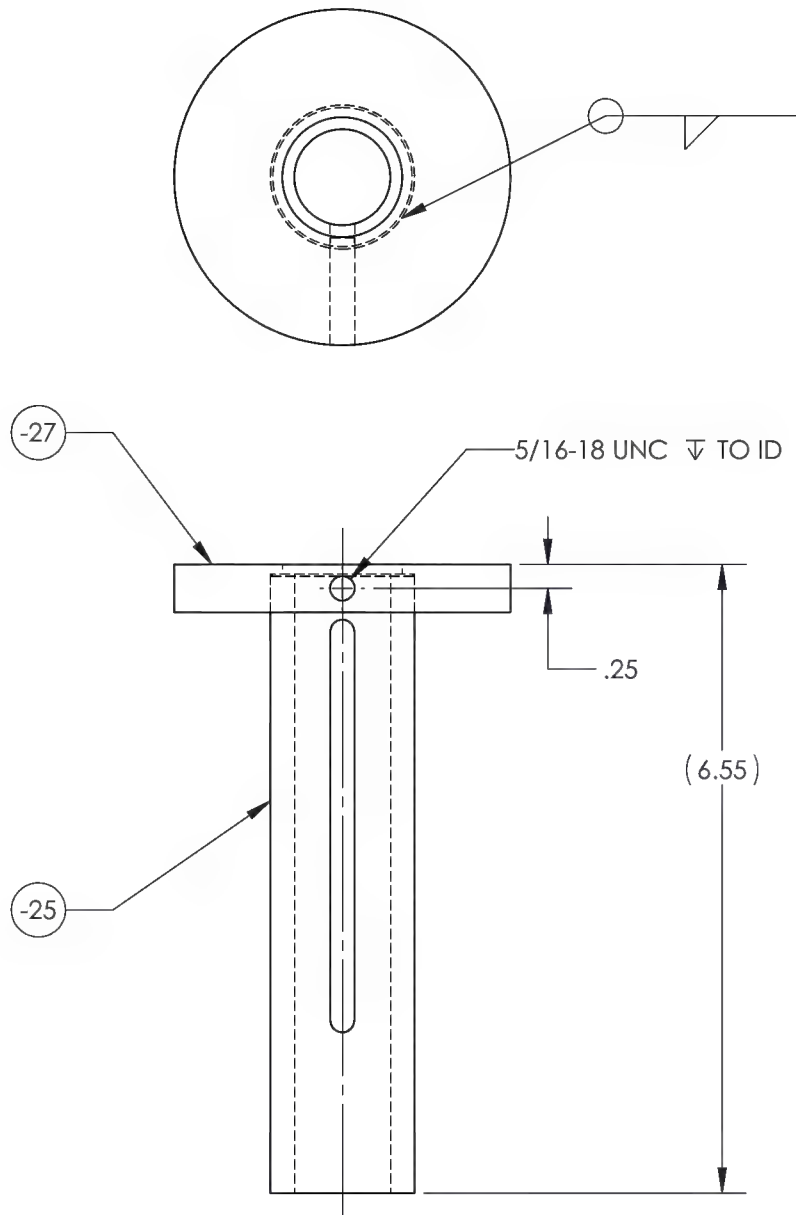
(21)

ADAPTER CUP

| | |
|---|--|
|  RED BARN MACHINE | |
| TITLE AFT AIR TRANSPORT SHORING JACK | |
| DWG NO. RBT18403-21 | REV A |
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON: DECIMALS .XXX ± .005 .XX ± .01 .X ± .1 FRACTIONS ± 1/32 ANGLES ± 5° | DRAWN BY: GILBERT APPROVED <i>D Weil</i> HEAT TREAT FINISH SPEC |
| UNLESS OTHERWISE SPECIFIED 1. BREAK ALL SHARP EDGES .015 x 45° PR .015 R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING | USED ON MODEL FIRE SCOUT MQ-8B |
| SCALE 1:4 | DATE 1/17/2011 |
| SHEET 12 OF 23 | |

This drawing, specifications, and concepts contained here in are the sole property of Red Barn Machine, and may not be reproduced or used in any fashion without the prior written permission of Red Barn Machine

| REVISIONS | | | |
|-----------|-------------|------|----------|
| REV | DESCRIPTION | DATE | INITIAL |
| | | | APPROVED |



-23

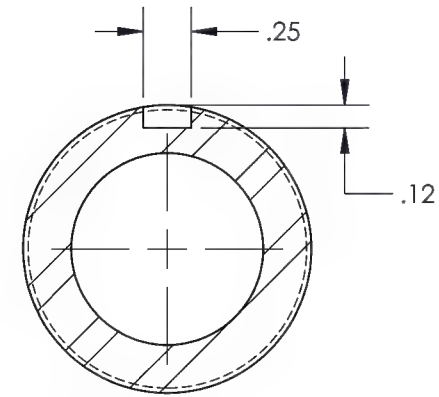
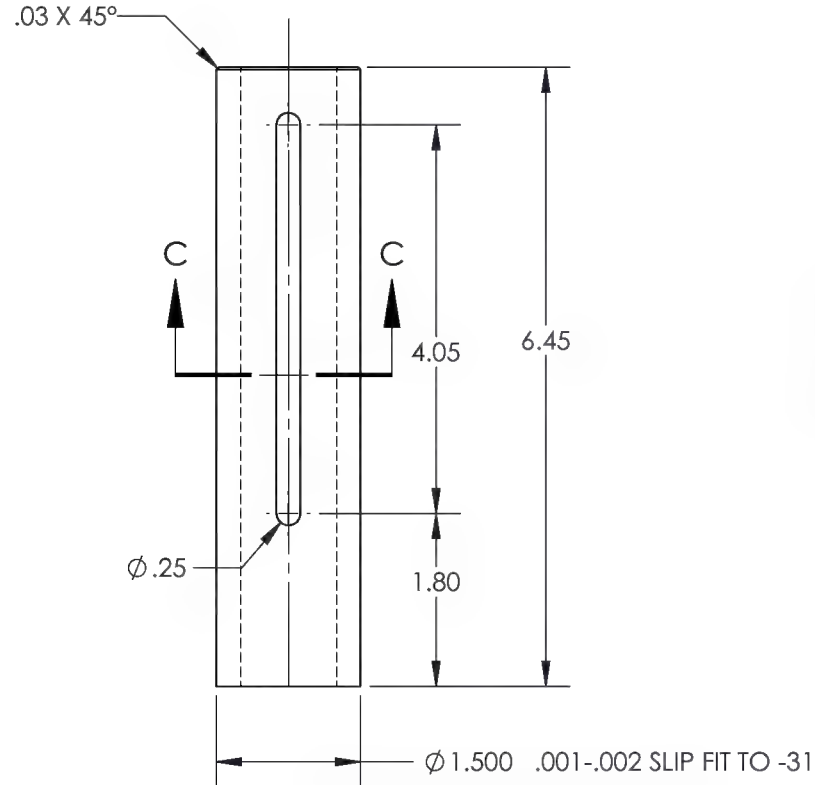
INSERT 1 WELDMENT

NOTE:
DRILL AND TAP HOLE AFTER WELDING,
ALIGNING TO SLOT AS SHOWN

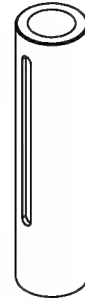
| | |
|--|---|
|  RED BARN MACHINE | |
| TITLE AFT AIR TRANSPORT SHORING JACK | |
| DWG NO. RBT18403-23 | REV A |
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON: DECIMALS .XXX ± .005 .XX ± .01 .X ± .1 FRACTIONS ± 1/32 ANGLES ± 5° | DRAWN BY: GILBERT APPROVED: <i>D Weil</i> HEAT TREAT: FINISH: BLACK ZINC SPEC: |
| UNLESS OTHERWISE SPECIFIED 1. BREAK ALL SHARP EDGES .015 x 45° PR .015 R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING | USED ON MODEL: FIRE SCOUT MQ-8B |
| SCALE 1:2 | DATE 1/17/2011 |
| SHEET 13 OF 23 | |

This drawing, specifications, and concepts contained here in are the sole property of Red Barn Machine, and may not be reproduced or used in any fashion without the prior written permission of Red Barn Machine

| REVISIONS | | | |
|-----------|-------------|------|----------|
| REV | DESCRIPTION | DATE | INITIAL |
| | | | APPROVED |

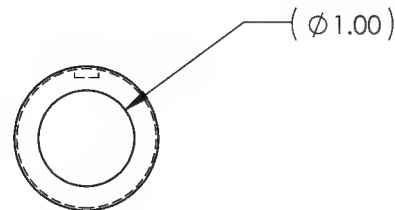



SECTION C-C
SCALE 1 : 1



(-25)

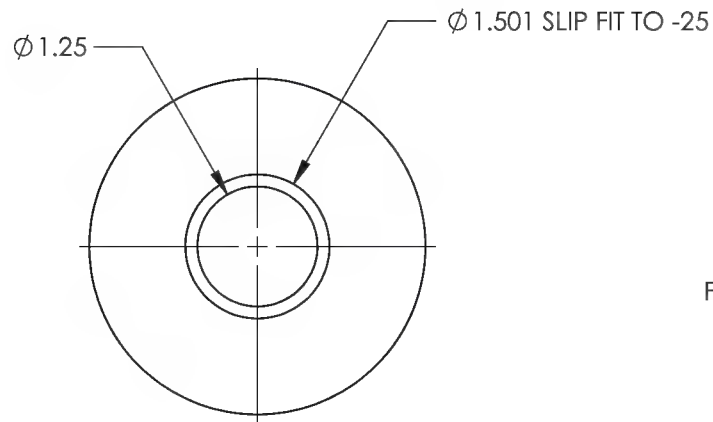
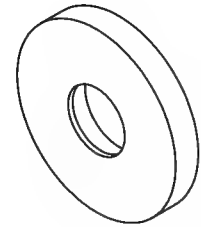
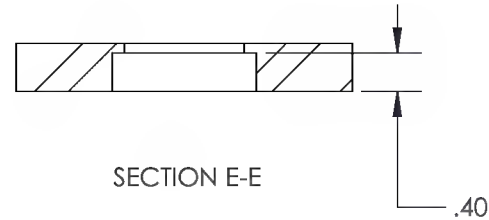
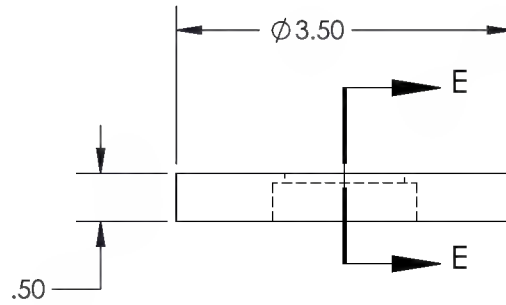
INSERT 1




| | |
|--|--|
|  RED BARN MACHINE | |
| TITLE AFT AIR TRANSPORT SHORING JACK | |
| DWG NO. RBT18403-25 | REV A |
| UNLESS OTHERWISE SPECIFIED TOLERANCES ON: DECIMALS .XXX ± .005 .XX ± .01 .X ± .1 FRACTIONS ± 1/32 ANGLES ± 5° | DRAWN BY: GILBERT APPROVED: <i>D Weil</i> HEAT TREAT: FINISH: SPEC: |
| UNLESS OTHERWISE SPECIFIED 1. BREAK ALL SHARP EDGES .015 x 45° PR .015 R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING | USED ON MODEL FIRE SCOUT MQ-8B |
| SCALE 1:2 | DATE 1/17/2011 |
| SHEET 14 OF 23 | |

This drawing, specifications, and concepts contained here in are the sole property of Red Barn Machine, and may not be reproduced or used in any fashion without the prior written permission of Red Barn Machine

| REVISIONS | | | |
|-----------|-------------|------|----------|
| REV | DESCRIPTION | DATE | INITIAL |
| | | | APPROVED |

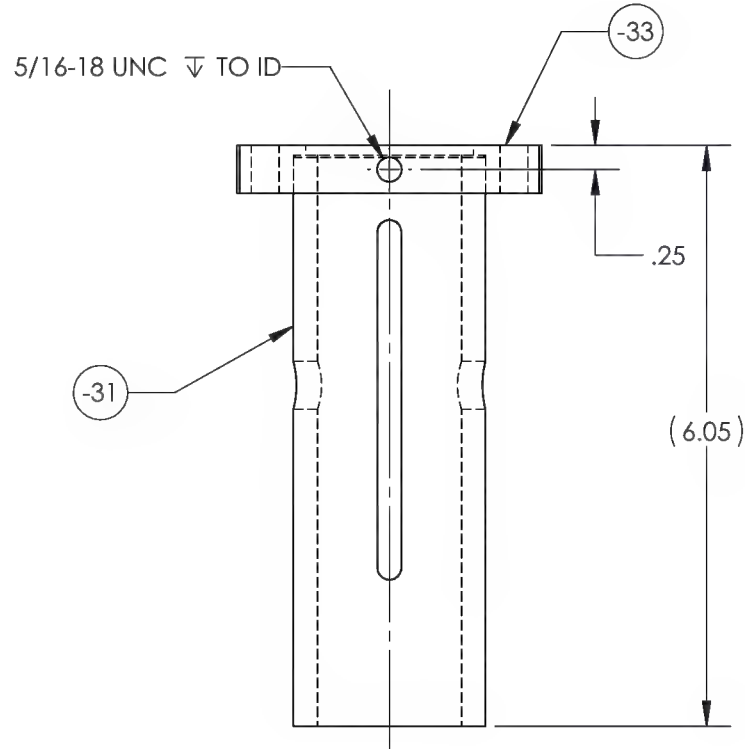
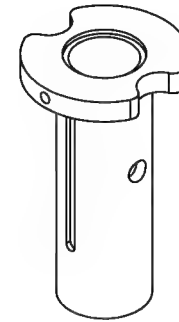
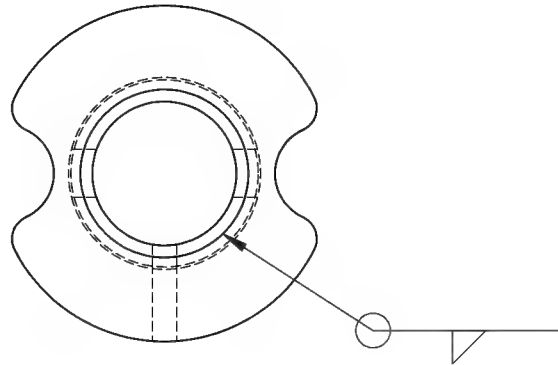


(-27)
FLANGE 1

| | |
|---|--|
|  RED BARN MACHINE | |
| TITLE AFT AIR TRANSPORT SHORING JACK | |
| DWG NO. RBT18403-27 | REV A |
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON: DECIMALS .XXX ± .005 .XX ± .01 .X ± .1 FRACTIONS ± 1/32 ANGLES ± 5° | DRAWN BY: GILBERT APPROVED: <i>D Weil</i> HEAT TREAT: FINISH: SPEC: |
| UNLESS OTHERWISE SPECIFIED 1. BREAK ALL SHARP EDGES .015 x 45° PR .015 R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING | USED ON MODEL FIRE SCOUT MQ-8B |
| SCALE 1:2 | DATE 1/17/2011 |
| SHEET 15 OF 23 | |

This drawing, specifications, and concepts contained here in are the sole property of Red Barn Machine, and may not be reproduced or used in any fashion without the prior written permission of Red Barn Machine


| REVISIONS | | | |
|-----------|-------------|------|----------|
| REV | DESCRIPTION | DATE | INITIAL |
| | | | APPROVED |



-29

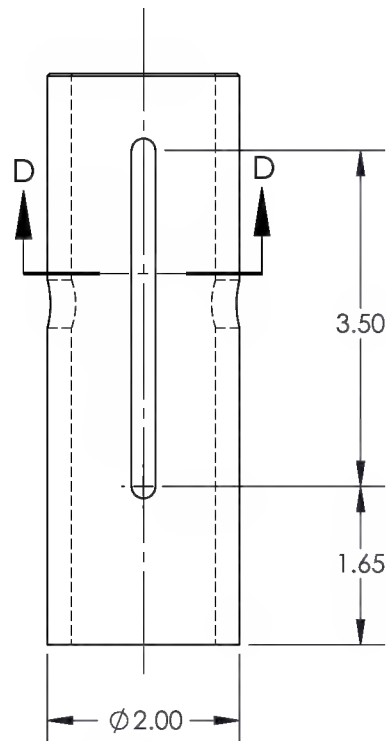
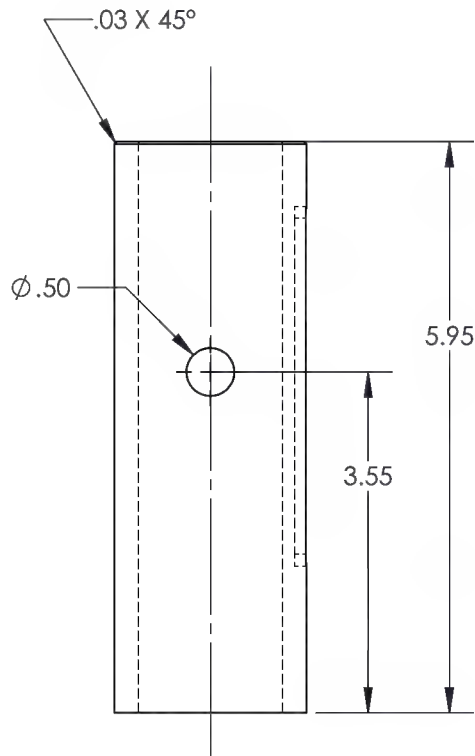
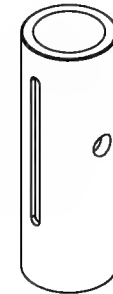
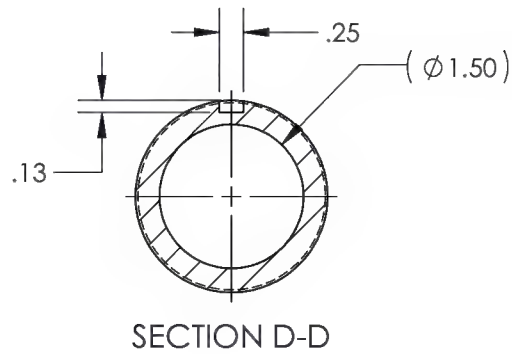
INSERT 2 WELDMENT

NOTE:
DRILL AND TAP HOLE AFTER WELDING,
ALIGNING TO SLOT AS SHOWN.

| | |
|--|---|
|  RED BARN MACHINE | |
| TITLE AFT AIR TRANSPORT SHORING JACK | |
| DWG NO. RBT18403-29 | REV A |
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON: DECIMALS .XXX ± .005 .XX ± .01 .X ± .1 FRACTIONS ± 1/32 ANGLES ± 5° | DRAWN BY: GILBERT APPROVED <i>D Weil</i> HEAT TREAT FINISH BLACK ZINC SPEC USED ON MODEL FIRE SCOUT MQ-8B |
| UNLESS OTHERWISE SPECIFIED 1. BREAK ALL SHARP EDGES .015 x 45° PR .015 R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING | |
| SCALE 1:2 | DATE 1/17/2011 |
| SHEET 16 OF 23 | |


This drawing, specifications, and concepts contained here in are the sole property of Red Barn Machine, and may not be reproduced or used in any fashion without the prior written permission of Red Barn Machine

| REVISIONS | | | |
|-----------|-------------|------|----------|
| REV | DESCRIPTION | DATE | INITIAL |
| | | | APPROVED |



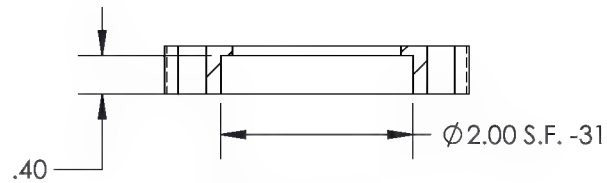
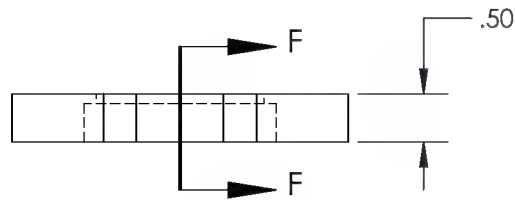
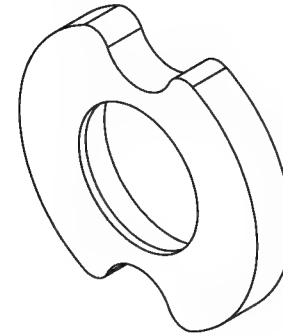
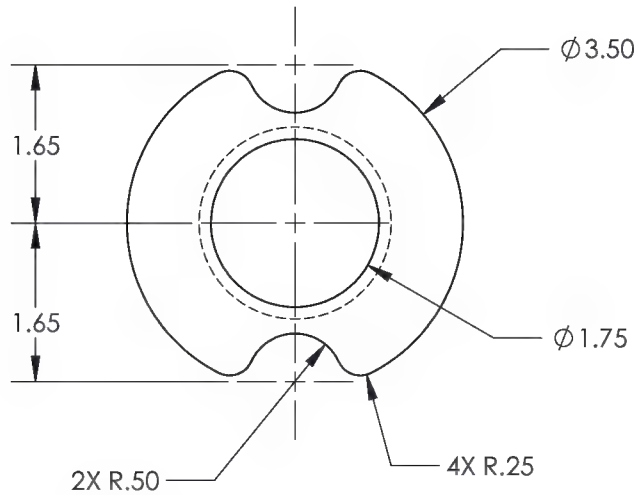
(-31)

INSERT 2

| | |
|--|--|
|  RED BARN MACHINE | |
| TITLE AFT AIR TRANSPORT SHORING JACK | |
| DWG NO. RBT18403-31 | REV A |
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON: DECIMALS .XXX ± .005 .XX ± .01 .X ± .1 FRACTIONS ± 1/32 ANGLES ± 5° | DRAWN BY: GILBERT APPROVED: <i>D Weil</i> HEAT TREAT: FINISH: SPEC: |
| UNLESS OTHERWISE SPECIFIED 1. BREAK ALL SHARP EDGES .015 x 45° PR .015 R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING | USED ON MODEL FIRE SCOUT MQ-8B |
| SCALE 1:2 | DATE 1/17/2011 |
| SHEET 17 OF 23 | |

This drawing, specifications, and concepts contained here in are the sole property of Red Barn Machine, and may not be reproduced or used in any fashion without the prior written permission of Red Barn Machine


| REVISIONS | | | |
|-----------|-------------|------|----------|
| REV | DESCRIPTION | DATE | INITIAL |
| | | | APPROVED |



SECTION F-F

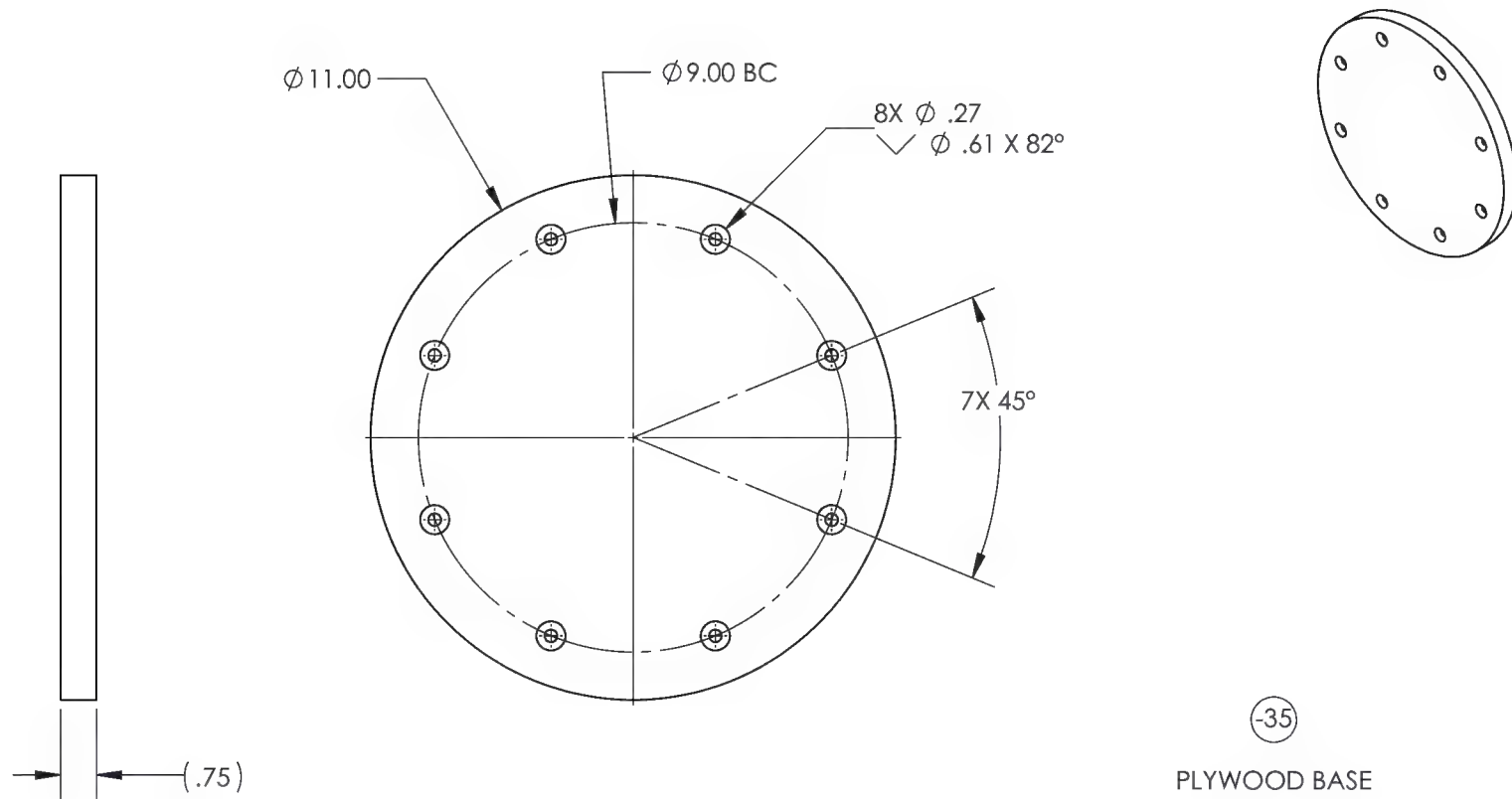
(-33)

FLANGE 2

| | |
|---|--|
|  RED BARN MACHINE | |
| TITLE AFT AIR TRANSPORT SHORING JACK | |
| DWG NO. RBT18403-33 | REV A |
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON: DECIMALS .XXX $\pm .005$.XX $\pm .01$.X $\pm .1$ FRACTIONS $\pm 1/32$ ANGLES $\pm 5^\circ$ | DRAWN BY: GILBERT APPROVED: <i>D Weil</i> HEAT TREAT: FINISH: SPEC: |
| UNLESS OTHERWISE SPECIFIED 1. BREAK ALL SHARP EDGES .015 x 45° PR .015 R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING | USED ON MODEL FIRE SCOUT MQ-8B |
| SCALE 1:2 | DATE 1/17/2011 |
| SHEET 18 OF 23 | |


This drawing, specifications, and concepts contained here in are the sole property of Red Barn Machine, and may not be reproduced or used in any fashion without the prior written permission of Red Barn Machine

| REVISIONS | | | |
|-----------|-------------|------|---------|
| REV | DESCRIPTION | DATE | INITIAL |
| | | | |



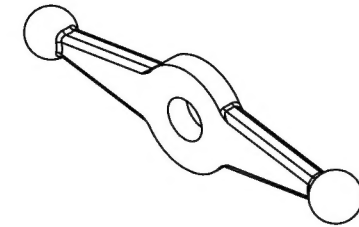
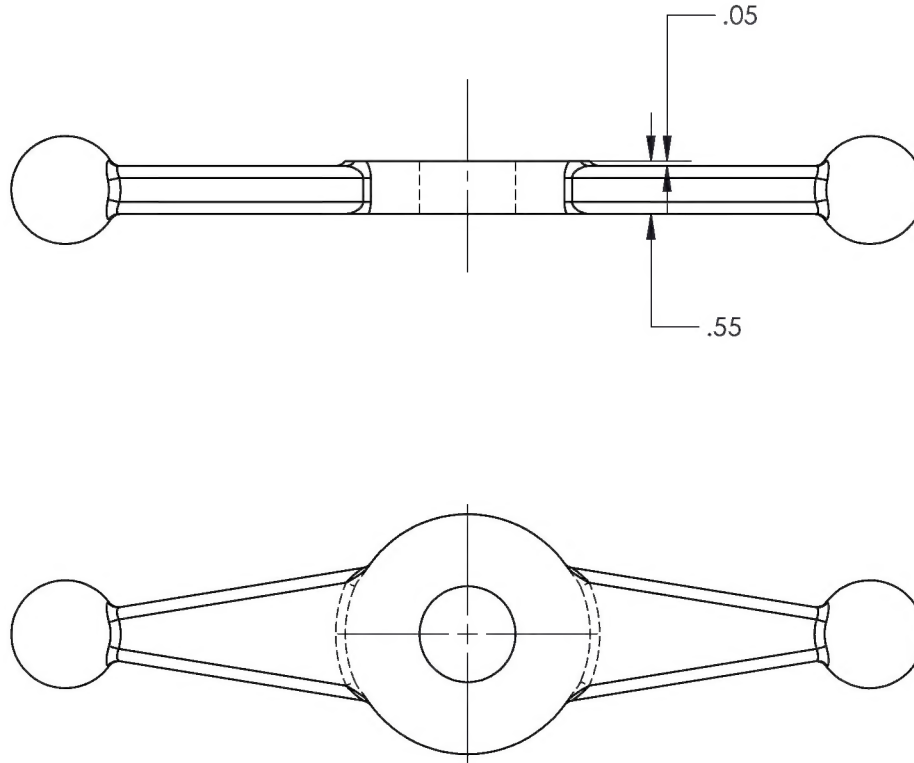
(-35)

PLYWOOD BASE

| | |
|--|--|
|  RED BARN MACHINE | |
| TITLE AFT AIR TRANSPORT SHORING JACK | |
| DWG NO. RBT18403-35 | REV A |
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON: DECIMALS .XXX ± .005 .XX ± .01 .X ± .1 FRACTIONS ± 1/32 ANGLES ± 5° | DRAWN BY: GILBERT APPROVED <i>D Weil</i> HEAT TREAT FINISH SPEC |
| UNLESS OTHERWISE SPECIFIED 1. BREAK ALL SHARP EDGES .015 x 45° PR .015 R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING | USED ON MODEL FIRE SCOUT MQ-8B |
| SCALE 1:4 | DATE 1/17/2011 |
| SHEET 19 OF 23 | |


This drawing, specifications, and concepts contained here in are the sole property of Red Barn Machine, and may not be reproduced or used in any fashion without the prior written permission of Red Barn Machine.

| REVISIONS | | | |
|-----------|-------------|------|----------|
| REV | DESCRIPTION | DATE | INITIAL |
| | | | APPROVED |



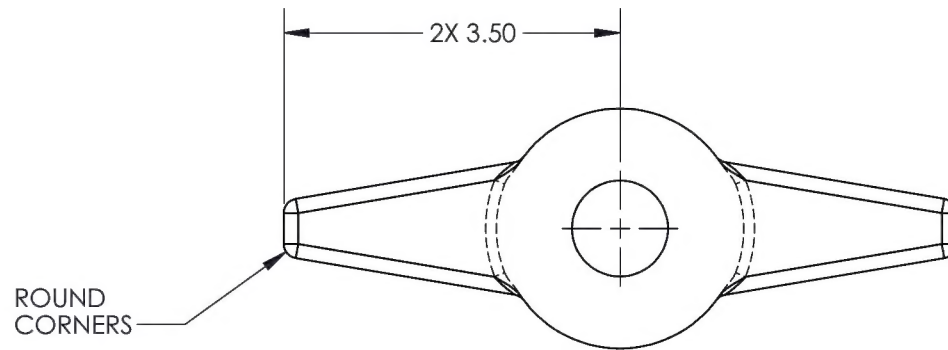
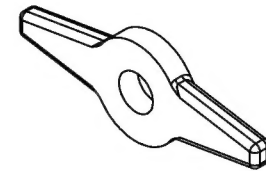
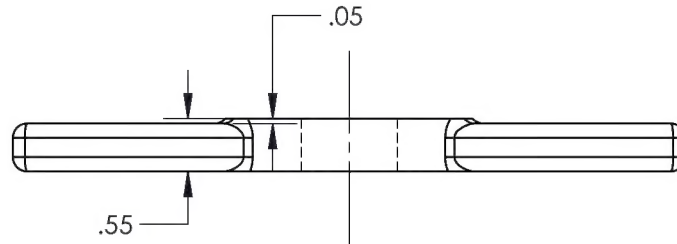
-37

JACK HANDLE MOD

| | |
|---|--|
|  RED BARN MACHINE | |
| TITLE AFT AIR TRANSPORT SHORING JACK | |
| DWG NO. RBT18403-37 | REV A |
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON: DECIMALS .XXX ± .005 .XX ± .01 .X ± .1 FRACTIONS ± 1/32 ANGLES ± 5° | DRAWN BY: GILBERT APPROVED <i>D Weil</i> HEAT TREAT FINISH SPEC |
| UNLESS OTHERWISE SPECIFIED 1. BREAK ALL SHARP EDGES .015 x 45° PR .015 R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING | USED ON MODEL FIRE SCOUT MQ-8B |
| SCALE 1:2 | DATE 1/17/2011 |
| SHEET 20 OF 23 | |

This drawing, specifications, and concepts contained here in are the sole property of Red Barn Machine, and may not be reproduced or used in any fashion without the prior written permission of Red Barn Machine.

| REVISIONS | | | |
|-----------|-------------|------|----------|
| REV | DESCRIPTION | DATE | INITIAL |
| | | | APPROVED |



-39

LOCKING HANDLE MOD

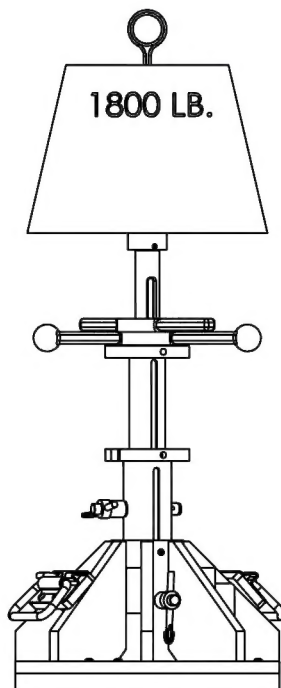
NOTE:
REMOVE BALL ENDS, RADIUS
AND BLEND ENDS.

| | |
|--|---|
|  RED BARN MACHINE | |
| TITLE AFT AIR TRANSPORT SHORING JACK | |
| DWG NO. RBT18403-39 | REV A |
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON: DECIMALS .XXX ± .005 .XX ± .01 .X ± .1 FRACTIONS ± 1/32 ANGLES ± 5° | DRAWN BY: GILBERT APPROVED: <i>D Weil</i> HEAT TREAT FINISH SPEC |
| UNLESS OTHERWISE SPECIFIED 1. BREAK ALL SHARP EDGES .015 x 45° PR .015 R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING | USED ON MODEL FIRE SCOUT MQ-8B |
| SCALE 1:2 | DATE 1/17/2011 |
| SHEET 21 OF 23 | |

This drawing, specifications, and concepts contained here in are the sole property of Red Barn Machine, and may not be reproduced or used in any fashion without the prior written permission of Red Barn Machine.

| REVISIONS | | | | |
|-----------|--|-----------|---------|----------|
| REV | DESCRIPTION | DATE | INITIAL | APPROVED |
| A | SHT 22, CHANGED WEIGHT FROM 3500 TO 1800 | 2/24/2011 | JAG | |

RED BARN MACHINE
190 S. DANEBO AVE., EUGENE OR. 97402
(541)344-9953; fax (541)344-3863
e-mail; sales@redbarn.net



INSPECTION & TESTING PROCEDURES FOR THE RBT18403 JACK ASSEMBLY. THIS ASSEMBLY IS DESIGNED TO SUPPORT FIRE SCOUT DURING TRANSPORT. THIS ASSEMBLY SHOULD BE INSPECTED BEFORE EACH USE. REPLACE ANY ITEMS THAT ARE DAMAGED OR SUSPECTED OF DAMAGE BEFORE USING!

91 DAY INSPECTIONS

1. CLEAN ENTIRE UNIT AND REMOVE CORROSION
2. CHECK ENTIRE UNIT FOR STRESS CRACKS, BENDING, OR DISTORTIONS.
3. CHECK WELDS FOR ANY CRACKS OR DISTORTIONS.
4. CHECK THREADS FOR DAMAGE, STRESS CRACKS STRETCHING, OR DISTORTIONS.
5. REPAINT IF NECESSARY.

IF ANY OF THE ABOVE CONDITIONS EXIST, OR ARE SUSPECTED OF EXISTING. DO NOT USE THE TOOL UNTIL IT HAS BEEN REPAIRED AND TEST OR REPLACED.

3 YEAR WEIGHT TESTING

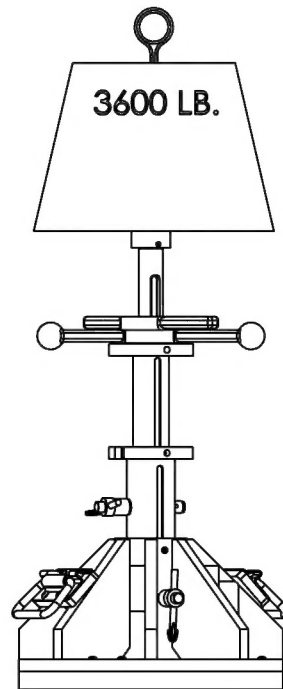
1. AFTER INSPECTION, TURN JACK HANDLE A MINIMUM 1 FULL ROTATION TO ENSURE THREAD ENGAGEMENT. EXTEND BOTH INSERTS AND LOCK IN PLACE WITH PINS. PLACE 1800LBS ON JACK, LEAVE WEIGHT FOR AT LEAST 5 MINUTES, CAREFULLY OBSERVE FOR DISTORTION OR DEFLECTION.
2. REMOVE WEIGHT AND RE-INSPECT JACK, CHECKING FOR STRESS CRACKS, BENDING, OR DISTORTIONS.

| | |
|---|--------------------------|
|  RED BARN MACHINE | |
| TITLE AFT AIR TRANSPORT SHORING JACK | |
| DWG NO. RBT18403 | REV A |
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON: DECIMALS .XXX ± .005 .XX ± .01 .X ± .1 FRACTIONS ± 1/32 ANGLES ± 5° | |
| UNLESS OTHERWISE SPECIFIED 1. BREAK ALL SHARP EDGES .015 x 45° PR .015 R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING | |
| DRAWN BY: GILBERT APPROVED: <i>D Weil</i> USED ON MODEL FIRE SCOUT MQ-8B | |
| CUSTOMER SHEET 1 OF 1 | |
| SCALE 1:2 | DATE 1/17/2011 |
| SHEET 22 OF 23 | |

This drawing, specifications, and concepts contained here in are the sole property of Red Barn Machine, and may not be reproduced or used in any fashion without the prior written permission of Red Barn Machine.

| REVISIONS | | | | |
|-----------|-------------------------|-----------|---------|----------|
| REV | DESCRIPTION | DATE | INITIAL | APPROVED |
| A | ADDED 1st ARTICLE SHEET | 2/24/2011 | JAG | |

FIRST ARTICLE WEIGHT TEST



RED BARN MACHINE
190 S. DANEBO AVE., EUGENE OR. 97402
(541)344-9953; fax (541)344-3863
e-mail; sales@redbarn.net

INSPECTION & TESTING PROCEDURES FOR THE RBT18403 JACK ASSEMBLY. THIS ASSEMBLY IS DESIGNED TO SUPPORT FIRE SCOUT DURING TRANSPORT. THIS ASSEMBLY SHOULD BE INSPECTED BEFORE EACH USE.
REPLACE ANY ITEMS THAT ARE DAMAGED OR SUSPECTED OF DAMAGE BEFORE USING!

FIRST ARTICLE WEIGHT TEST

1. AFTER INSPECTION, TURN JACK HANDLE A MINIMUM 1 FULL ROTATION TO ENSURE THREAD ENGAGEMENT. EXTEND BOTH INSERTS AND LOCK IN PLACE WITH PINS. PLACE 1800LBS ON JACK, LEAVE WEIGHT FOR AT LEAST 5 MINUTES, CAREFULLY OBSERVE FOR DISTORTION OR DEFLECTION.
2. REMOVE WEIGHT AND RE-INSPECT JACK, CHECKING FOR STRESS CRACKS, BENDING, OR DISTORTIONS.

INSPECTOR_____

TESTER_____

S.N._____

DATE_____

| | |
|---|-----------------|
|  RED BARN MACHINE | |
| TITLE AFT AIR TRANSPORT SHORING JACK | |
| DWG NO. RBT18403 | REV A |